

Control Number: 50595



Item Number: 86

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Public Utility Commission of Texas

Employee Training Report Required by 16 Texas Admin. Code § 25.97(d)



PROJECT NO. 50595

AFFECTED ENTITY: Sam Houston Electric Cooperative, INC.

General Information

Pursuant to 16 Texas Admin. Code § 25.97(d)(2), not later than the 30th day after the date an affected entity finalizes a material change to a document or training program, the affected entity must submit an updated report. The first report must be submitted not later than May 1, 2020.

Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

Central Records Filing Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326
Telephone: (512) 936-7180

1. Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

Sam Houston Electric Cooperative provides the following training to its employees.

Summary of Hazardous Recognition Training for Transmission Facilities

PURA §38.102 requires electric utilities including electric cooperatives and municipally owned utilities to report on its hazard recognition employee training related to overhead transmission and distribution facilities. For the purposes of this training, transmission facilities include those electric facilities operating above 60 kV. One of the challenges to recognizing hazards inherent to transmission facilities is the significant changes in conductor sag for transmission lines. The goal for this training is to educate employees to observe, recognize and report hazardous situations.

Course Outline:

1. Definition of a Hazard
2. Hazards to Report
 - a. Non-compliance with NESC
 - b. Failed System Components
 - c. Failure of Warning Lights/Marker Balls
3. Summary of Clearances for Transmission Facilities
4. Recognition of Changes in Conductor Sag for Long Spans
5. Activities near the Line
 - a. Grading
 - b. Crane Operation
 - c. Scaffold Clearances
 - d. Construction of Adjacent Buildings/Signs
6. Priorities of Reported Issues
7. Record Keeping Requirements

Objectives:

1. Define hazards associated with transmission lines
2. Identify appropriate distance for cranes from power lines.
3. Identify required clearances for transmission line related to roads and buildings.

2. Provide a summary description of training programs you provide your employees related to the National Electrical Safety Code for construction of electric transmission and distribution lines.

Sam Houston Electric Cooperative provides the following training to its employees.

Summary of Distribution and Transmission Webinar for PURA §38.102

PURA §38.102 requires electric utilities including electric cooperatives and municipally owned utilities to report on its employee training related to the National Electric Safety Code (NESC) for construction of electric transmission and distribution lines. This webinar discusses the requirements for transmission facilities which are defined as facilities operating above 60 kV. This training will focus on transmission clearances, strength issues, and access of overhead transmission lines.

Course Outline:

1. Maximum Operating Temperature and Sag Requirements for Conductors
2. Additional Ground Clearance Requirements for Transmission and Distribution Lines
 - a. Maximum Operating Voltage
 - b. Elevation above Sea Level
 - c. Electrostatic Effects to Vehicles below the Line.
3. Additional Clearances from Building/Signs
 - a. Deflection of Insulators
 - b. Deflection of Structures
 - c. Clearance Based on Maximum Operating Voltage
 - d. Limited Electrostatic Effects to Buildings and Signs below the Line
4. Mid-span Conductor Clearances
5. Power Lines and Phone Lines Crossing below Distribution and Transmission Lines
6. Grade of Construction for Voltages Over 22kV
 - a. Guying Strength Requirements
 - b. Under-build Strength Requirements
7. Identification of Climable Supporting Structures

Objectives:

1. Determine appropriate clearances for transmission and distribution lines.
2. Define maximum sag for determined clearances.
3. Identify strength requirements for transmission facilities

Additionally, NESC Clearance Charts are made available to any employees at their request.

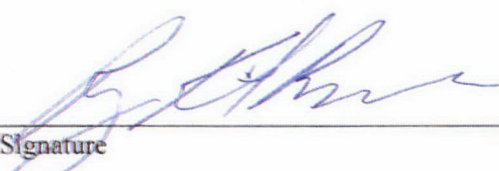
Also, Sam Houston Electric Cooperative provides training whenever updates are made to the NESC codebook. This training includes instruction on the updates to the the NESC codebook, any new codes, and a general refresher of applicable NESC requirements. Sam Houston Electric Cooperative hosted these trainings most recently in 2012 and 2017. We plan to host another training in 2022 when the next NESC codebook is issued.

Affected Entity: Sam Houston Electric Cooperative, INC.

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AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

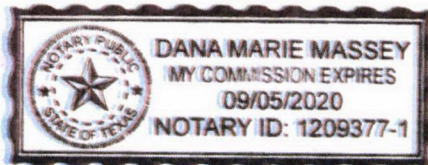

Signature

Ryan Brown
Printed Name

Chief Engineer
Job Title

Sam Houston Electric Cooperative, INC.
Name of Affected Entity

Sworn and subscribed before me this 28th day of April, 2020.
Month Year




Notary Public in and For the State of Texas

My commission expires on 9/5/2020